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EXAMINER'S
COPY

115,013

PATENT



SPECIFICATION

Application Date, Jan. 13, 1917. No. 5188/18.

Complete Left, July 13, 1917.

Complete Accepted, Apr. 25, 1918.

PROVISIONAL SPECIFICATION.

A New and Improved Mounting for Machine Guns.

I, WILLIAM YOULTEN, Architect, of 39, Victoria Street, London, S.W. 1, do hereby declare the nature of this invention to be as follows:—

This invention relates to a mounting for machine guns, and refers to a mounting which is particularly suitable for use in connection with trenches and the like for enabling the machine gun to be raised into an upper position for firing or brought down into a lower position, by which it is concealed from view of the enemy.

This device may be used without or with a hyposcope, and where it is used in connection with a hyposcope, a secondary or false butt may be used to be attached or clamped to the ordinary butt where such is provided or to some suitable part of the gun in order to steady the weapon when firing.

According to the general principle of my invention, I provide a suitable frame, which may be collapsible. This frame is adapted to rest upon the sand bags or upon the ground and may be provided with spikes or the like for taking into the ground or surface upon which the frame rests.

Suitably pivoted in connection with this frame is an arm or framework carrying at the top a hinged and rotatable fitting adapted to be clamped suitably around or to the gun in such a way that in one position the gun can be pushed upwards and comes into the firing position above the parapet of a trench and at another position it may be lowered out of sight, for any required purpose.

In the case of a heavy machine gun, I prefer to provide a mounting consisting of a frame of rhomboidal form, made of tubes which are provided with means on the underside for allowing the frame to rest firmly in position.

Extending between two opposite angular points of the rhomboidal frame, is a cross tube, upon which are pivoted two other tubes in such a way that the frame formed by such tubes can be turned into the vertical position or turned down. These tubes carry at the top a suitable clamp, which is clamped around the body of the machine gun. This clamp is so hinged or mounted that it can be swung over and turned from side to side.

In connection with the rhomboidal frame is another tube extending from the back of the frame towards the front angle of the rhomboid.

Sliding along this tube is a collar or the like, to which is hinged one end of another tube, the further end of which is in turn hinged in the neighbourhood of the upper end of the rising frame, the construction being such that as the collar is pushed forward the frame rises carrying with it the clamp holding the gun.

Suitable screws or the like may be provided in connection with the sliding

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sleeve for holding the rising frame in the lower and upper positions, and a spring such for instance as a strong flat spring may be furnished for assisting the marksman in pushing the gun into position.

With this arrangement, a Maxim, Lewis or other gun may be kept in the lowered position out of sight of the enemy for the purpose of putting the lands 6 into position, attaching a magazine or the like and when desired be pushed into the required position and turned from side to side or manipulated in the ordinary way. It can of course be furnished with a hyposcope if desired.

In the case of a light machine gun, I may dispense with the side tubes of the rhomboidal frame and lighten the construction without departing from 10 the principles of my said invention.

A false or secondary butt or its equivalent may be provided for use with machine guns of all descriptions if found desirable to facilitate manipulation of the gun.

It will be understood that I do not wish to confine myself to the particular 15 construction or arrangement described as it may be varied without departing from the principle of my invention.

Dated this 13th day of January, 1917.

BROWNE & Co.,
Agents for the Applicant,
9, Warwick Court, Gray's Inn, London, W.C. 1. 20

COMPLETE SPECIFICATION.

A New and Improved Mounting for Machine Guns.

I, WILLIAM YOUNG, Architect, of 39, Victoria Street, London, S.W. 1, do hereby declare the nature of this invention and in what manner the same is 25 to be performed, to be particularly described and ascertained in and by, the following statement:—

This invention relates to a mounting for machine guns, and refers to a device or apparatus of the class in question which is particularly suitable for use in connection with trenches and the like, for enabling the machine gun 30 to be raised into an upper position for firing or brought down into a lower position in which it is concealed from the view of the enemy.

Various types of gun mountings have already been employed for similar purposes.

For instance it has already been proposed to provide an upper carriage carry- 35 ing the gun, connected by means of pivoted legs or struts to cross heads, adapted to be reciprocated in longitudinal slideways, forming part of a stationary bed plate, suitable means being employed for displacing the cross heads to effect the raising and lowering of the gun.

It has also been proposed for supporting a gun from a wooden upright, such as is associated with the revetement of a firing trench, to provide two articulated metal members, one adapted to be rigidly fixed to the said upright and the other to carry the gun, the latter member when oscillated serving to alter the height of the gun in relation to its support.

In the case of a carriage, for a machine or quick firing gun it has also been 45 suggested to carry the gun at the apex of a pyramidal framework, the framework being composed of two diagonal struts jointed at their lower ends in the neighbourhood of the wheel bearings of the gun carriage, and having jointed to them near their meeting point a rod or tube, which is fitted to slide within an outer tube, this outer tube sliding through an eye which is hinge jointed 50

to the rear end of the traction pole or the like; the net result of the construction being that the gun can be rocked forwards or backwards and downwards on each side of its most elevated position.

It has also been proposed to provide hinged supporting legs in connection with the pole of the gun carriage, in order to support the same during firing.

My present invention consists in a light and easily portable device or apparatus, which can be collapsed so that it can be stowed into a small compass and easily transported from place to place, but which is adapted to be placed so that it rests practically flat upon a firing step, upon sand bags or the ground, the device or apparatus being adapted to hold the machine gun in such a way that it can be lowered behind the parapet or other cover for loading and other purposes and raised and retained in the firing position with great facility.

The device or apparatus constructed according to my invention for supporting a heavy machine gun, comprises in combination a tubular framework shaped substantially to the form of two oppositely directed isosceles triangles having a common base; two tubes or arms hinged at the two angles at the ends of the base, a fitting carrying the machine gun, connected to the outer ends of the said arms, a central tube extending in the longitudinal axis of the said framework, another tube or its equivalent pivotally connected at one end to a collar sliding on the said central tube and at the other end to the fitting carrying the gun, and means for holding the whole apparatus in the raised position.

I attach the gun to the fitting by which it is carried by means of a suitable clasp or clamp, which is adapted to be clamped around the body of the gun the usual joints being added for enabling the gun to be swung over and turned from side to side.

A spring, such for instance as a strong flat spring, may be furnished for assisting the marksmen in pushing the gun into position.

With this arrangement, a Maxim, Lewis or other gun, may be kept out of sight of the enemy, for the purpose of putting the cartridge belt into position, attaching a magazine or the like and, when desired, be pushed into the required position and turned from side to side or manipulated in the ordinary way.

It can of course be furnished with a hypscope if desired and a false butt may be added for steadying the gun in the raised position.

And in order that my said invention may be understood, I will now proceed to describe the same with reference to the drawings accompanying this specification, in which:—

Fig. 1 is a side elevation of the device for supporting a machine gun with the frame in the raised position.

Fig. 2 is a front elevation of the top of the support, illustrating certain details of construction.

Fig. 3 is a side elevation of the device in the collapsed position.

Fig. 4 is a plan of the device in the raised position, and,

Fig. 5 is a plan of the same device in the collapsed position.

The same letters and numerals of reference are employed to denote the same parts in all the views.

p are tubes forming a framework. These tubes are provided with spikes q for enabling the framework to be firmly supported upon the ground or other surface upon which the device is to rest. r is a cross tube connecting two opposite angles of the said framework. s , t are other tubes pivoted at t , t , are their lower ends and connected together at their upper ends w . These tubes carry at the top a block z . 3 is a sleeve or tube carrying at the lower portion two lugs 4, 4. These lugs are perforated and are adapted to come on each side of the block z and they constitute therewith a pivotal connection; a screw, operated by a handle 5 being passed through perforations in the lugs 4 and through the perforation in the block z . As will be seen from Fig. 1, one or both of the lugs 4 are shaped with a curved portion 6, which enables the fitting carried by the tube 3 to be turned down in one direction, but not in the other.

The tube 3 has pivotally mounted therein a pin 7, so that the said pin can rotate. This pin carries the lower portion of a circular clamp for holding the gun, such clamp comprising a semi-circular part 8 having hinged thereto another semi-circular portion 9 adapted to come over the gun. The part 8 has hinged thereto at 10 a screw threaded pin 10*. 12 is a screw threaded tube, screwing on to the pin 10*, and rotated by a handle 12*. The part 9 is provided with a slotted projection 11. The clamping is effected by turning up the pin 10* into the slot, and screwing down the tube 12.

13 is a tube extending from the cross tube *r* along the middle of the lower frame. 14 is a collar adapted to slide on the tube 13 and having hinged thereto by means of a split tube 15 and screw clamp 15*, one end of a tube 16, the other end of which is pivoted to lugs 17 in connection with the upper portion of the tubes *v*. 19 are strong laminated springs bolted to the tube 16.

The use of this device will be readily understood.

The machine gun is bolted in position in the clamping device constituted by the parts 8 and 9. By releasing the screw fitting 15 and pushing the gun upwards, the frame rises into the position shown at Fig. 1, in which the gun can be traversed from side to side and tilted. When it is required to replace the old cartridge belt by a new one, or desirable for other purposes, the frame may be lowered into the position shown at Fig. 3.

The spring 19 coming into contact with the central tube 13 acts as a buffer and assists the gunner in pushing up the device.

In some cases the construction may be modified as shown in dotted lines on Figs. 1, 3, 4 and 5, in which the portions of the lower framework coming at the front are omitted, and in this case, or in others where it is desired to provide additional means for steadying the apparatus and preventing it tipping or overbalancing, I may furnish a leg 20, hinged at 21 to the tube 16 and adapted to engage on the ground and form an additional support.

More than one such supporting legs may be provided in any desired position if required.

I may provide a helical tension spring in place of the spring 19.

It will be understood that the particular construction of the apparatus or device may be varied according to the class of gun to be carried.

As previously mentioned a secondary or false butt may be added for assisting in the manipulation of the gun when in the raised position, without exposing the hands of the gunner to the view of the enemy. This is particularly desirable where a hyposcopic or similar sight is furnished.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A mounting for a machine gun, comprising in combination, a tubular framework shaped substantially to the form of two oppositely directed isosceles triangles having a common base; two tubes or arms hinged at the two angles at the ends of the base, a fitting carrying the machine gun connected to the outer ends of the said arms, a central tube extending in the longitudinal axis of the said framework, another tube or its equivalent pivotally connected at one end to a collar sliding on the said central tube and at the other end to the fitting carrying the gun, and means for holding the whole apparatus in the raised position, substantially as and for the purposes set forth.

2. A constructional form of mounting as claimed in Claim 1 in which a laminated spring or helical spring is provided for assisting manipulation of the device and for buffering purposes substantially as described.

3. A constructional form of mounting as claimed in the preceding claims, in which the front portion of the lower framework is removed substantially as described.

4. A constructional form of mounting as claimed in the preceding claims, in

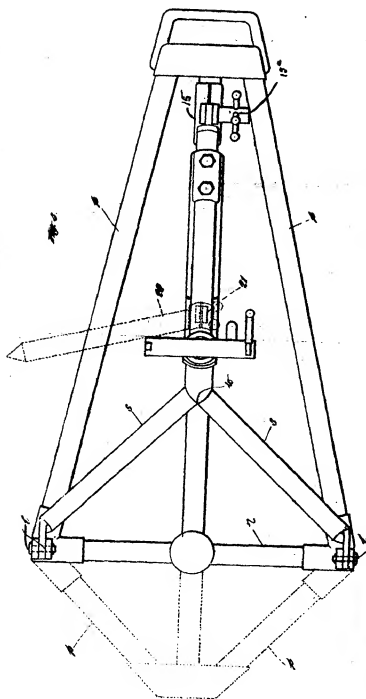
which a hinged leg or hinged legs are provided for steadying the device or apparatus, substantially as described.

5. A mounting for a machine gun constructed substantially as herein described and shown on the accompanying drawings for the purposes set forth.

5 Dated this 13th day of July, 1917.

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9, Warwick Court, Gray's Inn, London, W.C. 1.

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Multiple Views, Patent Office

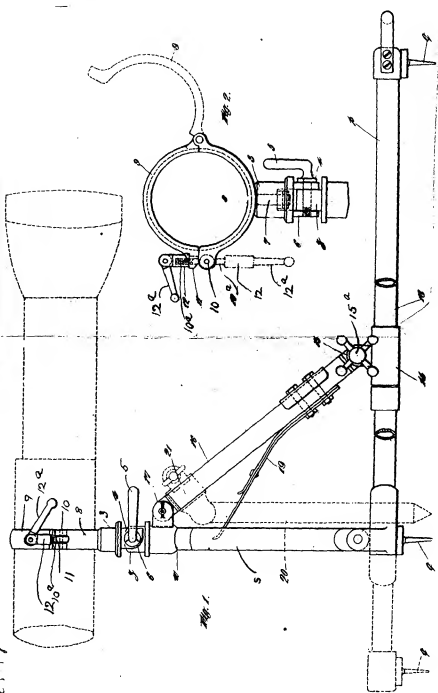
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115013 YOUTEN'S COMPACT SPECIFICATION.

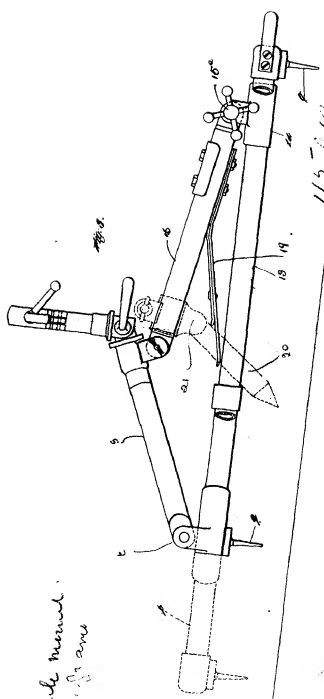
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115.013. YOUTZEN'S COMPLETE SPECIFICATION.

